SEQUENCE LISTING GENERAL INFORMATION: (1) (i) APPLICANT: (A) NAME: Dr.Rentschler Biotechnologie GmbH (B) STREET: Erwin-Rentschler-Str. 21 (C) TOWN: Laupheim (E) COUNTRY: Germany 10 (F) POSTCODE: D-88471 (ii) TITLE OF THE INVENTION: Liq $\psi$ id interferon- $\beta$ formulations 15 (iii) NUMBER OF SEQUENCES: 14 (iv) COMPUTER-READABLE VERSION: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM/PC compatible 20 (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1/.30 (EPA) 25 (2) INFORMATION FOR SEQ ID NO: 1: (i) SEQUENCE CHARÁCTERISTICS: (A) LENGTH: 7 aminoacids (B) TYPE: aminoacid 30 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (viii) POSITION IN THE GENOME: 35 (B)/ MAP POSITION: 109-115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: Glu Asp the Thr Arg Gly Lys 40 INFORMATION FOR SEQ ID NO: 2: (2) (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 aminoacids 45 (B) TYPE: aminoacid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide
         (viii) POSITION IN THE GENOME:
 5
                 (B) MAP POSITION: 100-105
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
          Thr Val Leu Glu Glu Lys
10
     (2)
         INFORMATION FOR SEQ ID NO: 3:
           (i) SEQUENCE CHARACTERISTICS:
                 (A) LENGTH: 7 aminoacids
                 (B) TYPE: aminoacid
15
                 (C) STRANDEDNESS: single
                 (D) TOPOLOGY: linear
          (ii) MOLECULE TYPE: peptide
20
         (viii) POSITION IN THE GENOMÉ:
                 (B) MAP POSITION: /46-52
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
25
          Gln Leu Gln Gln Phe Gln Lys
          INFORMATION FOR SEQ ID NO: 4:
    (2)
           (i) SEQUENCE CHARACTERISTICS:
30
                 (A) LENGTH: 8 aminoacids
                 (B) TYPE: aminoacid
                     STRANDEDNESS: single
                 (D) / TOPOLOGY: linear
35
          (ii) MOLECULE TYPE: peptide
         (viii) POSITION IN THE GENOME:
                 (B) MAP POSITION: 116-123
40
               FEATURE:
                 (A) NAME/KEY: Modified-site
                 (B) POSITION: 2
                 (C) OTHER INFORMATION:/product= "Xaa =
                     Met(oxidized)"
45
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Leu Xaa Ser Ser Leu His Leu Lys 5 (2) INFORMATION FOR SEQ ID NO: 5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 aminoacids (B) TYPE: aminoacid (C) STRANDEDNESS: single 10 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide 15 (viii) POSITION IN THE GENOME: (B) MAP POSITION: 116-12/3 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: Leu Met Ser Ser Leu His/Leu Lys 20 (2) INFORMATION FOR SEQ ID NO: 6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 aminoacids 25 (B) TYPE: aminoacid (C) STRANDEDNESS: single (D) TOPÓLOGY: linear (ii) MOLECULE TYPE: peptide 30 (viii) POSITION IN THE GENOME: (B) MAP POSITION: 34-45 35 (ix) FEATURE: (A) NAME/KEY: Modified-site (B) POSITION: 3 (C) OTHER INFORMATION:/product= "Xaa = Met(oxidized)" 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: Asp Arg Xaa Asn Phe Asp Ile Pro Glu Glu Ile Lys

	(2)	INFORMATION FOR SEQ ID NO: 7:
5		(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 11 aminoacids  (B) TYPE: aminoacid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear
10		(ii) MOLECULE TYPE: peptide
10		(viii) POSITION IN THE GENOME:  (B) MAP POSITION: 124-134
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
		Arg Tyr Tyr Cly Arg Ile Leu His Tyr Leu Lys
15		1 5 10
	(2)	INFORMATION FOR SEQ ID NO: 8:
		(i) SEQUENCE CHARACTERISTICS:
20		(A) LENGTH: 12 aminoacids (B) TYPE: aminoacid
		(C) STRANDEDNESS: single
		(D) TOPOLOGY: linear
25		(ii) MOLECULE TYPE: peptide
		(viii) POSITION IN THE GENOME: (B) MAP POSITION: 34-45
		(B) MAP POSITION: 34-45
30		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
		Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys
		10
	(2)	INFORMATION FOR SEQ ID NO: 9:
35	Ť	
		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 aminoacids
		(B) TYPE: aminoacid
		(C) STRANDEDNESS: single
40		(D) TOPOLOGY: linear
		(ii) MOLECULE TYPE: peptide
	/	(viii) POSITION IN THE GENOME:
45		(B) MAP POSITION: 20-33

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys INFORMATION FOR SEQ ID NO: 10: (2) 5 (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 19 aminoacids (B) TYPE: aminoacid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 10 (ii) MOLECULE TYPE: peptide (viii) POSITION IN THE GENOME: (B) MAP POSITION: 1-19 15 (ix) FEATURE: (A) NAME/KEY: Modified-site (B) POSITION: 1 (C) OTHER INFORMATION://product= "Xaa = 20 Met(oxidized)" (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: 25 Kaa Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Cys Gln Lys (2) INFORMATION FOR SEQ ID NO: 11: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 aminoacids (B) TYPE: aminoacid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 35 (ii) MOLECULE TYPE: peptide (viii/) POSITION IN THE GENOME: (B) MAP POSITION: 1-19 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11: Met Ser Tyr Asn Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Cys Gln Lys

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		Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ilo Asn His Leu Lys
		/ Ile She Arg Gln Asp ser ser Ser Thr Gly Trp Asn Glu Thr Ile Val 20 25 30
		Glu Asp Ala Ala Leu Thr Ile Tyr Glu Kaa Leu Gln Asn Ile Dhe Ala 1 5 10 15
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
35		Met(oxidized)"
. =		(C) OTHER INFORMATION:/product= "Xaa =
		(B) POSITION: 10
		<pre>(ix) FEATURE:      (A) NAME/KEY: Modified-site</pre>
30		
		(viii) POSITION IN THE GENOME: (B) MAP POSITION: 53-99
		(ii) MOLECULE TYPE: peptide
25		(D) TOPOLOGY: linear
		(B) TYPE: aminoácid (C) STRANDEDNESS: single
		(A) LENGTH: 47 aminoacids
20		(i) SEQUENCE CHARACTERISTICS:
	(2)	INFORMATION FOR SEQ ID NO: 13:
		Asn She Tyr She Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn 20 25 30
		Glu Tyr Sor His Cye Ala Try Thr Ile Val Arg Val Glu Ile Leu Arg
15		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
		(viii) POSITION IN THE GENOME:  (B) MAP POSITION: 137-166
LO		(ii) MOLECULE TYPE: peptide
		(D) TOPOLOGY: linear
5		(B) TYPE: aminoacid (C) STRANDEDNESS: single
		(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 aminoacids
	(2)	
	(2)	INFORMATION FOR SEQ ID NO: 12:

40

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

10 (viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 53-99
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn Ile Phe Ala

Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile Val

Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His Leu Lys

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